			7.7	
L Number	Hits	Search Text	DB	Time stamp
2	5078	((717/120,124,133,144-146,151,155-159) or (700/87/266) or (707/104.1)).ccls.	USPAT; US-PGPUB; EPO; JPO;	2004/09/24 14:06
9	. 0	(while same (empty) same remove)	DERWENT; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/24 14:10
-	6	(@ad<=20011011 or @rlad<=20011011) and ((alias same (class and referenc\$5)).clm. or (alias same (class and referenc\$5)).ab.)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/23 16:02
	61	(@ad<=20011011 or @rlad<=20011011) and ((alias same (class)).clm. or (alias same (class)).ab.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/21 17:26
_	5	(CFG and (alias same analysis) and (declaration or statement) and (edge or node or vertice))	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/23
- ,	4	(definition-use and (alias same analysis) and (declaration or statement) and (edge or node or vertice))	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/23 16:07
_		(@ad<=20011011 or @rlad<=20011011) and (((CFG and (alias same analysis) and (definition same use) and (declaration or statement) and (edge or node or vertice))) or ((CFG and (alias same analysis) and (declaration or statement) and (edge or node or vertice))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 16:49
	16	(equivalence adj2 class) and ((data or control) adj3 "flow graph")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/22 16:45
	8	CFG and (alias\$3 same ((variable or relationship or dependency or definition-use)) and node)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/22
	45	((PUT and GET) or (memory adj2 access)) and "equivalence class" and alias\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/22 16:47
_	10	<pre>(alias same (CFG or "flow graph")) and (assign\$5 same (node or edge or vertice))</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/22 16:49
_	56	(@ad<=20011011 or @rlad<=20011011) and (((equivalence adj2 class) and ((data or control) adj3 "flow graph")) or (((PUT and GET) or (memory adj2 access)) and "equivalence class" and alias\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/24
_	13		USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 10:17

	1	((@ad<=20011011 or @rlad<=20011011) and (((equivalence adj2 class) and ((data or control) adj3 "flow graph")) or (((PUT and GET) or (memory adj2 access)) and "equivalence class" and alias\$3))) and ((@ad<=20011011 or @rlad<=20011011) and ((CFG and (alias\$3 same ((variable or relationship or dependency or definition-use)) and node)) or ((alias same (CFG or "flow graph")) and (assign\$5 same (node or edge or vertice))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 16:50
-	8	<pre>(((@ad<=20011011 or @rlad<=20011011) and (((equivalence adj2 class) and ((data or control) adj3 "flow graph")) or (((PUT and GET) or (memory adj2 access)) and "equivalence class" and alias\$3))) or ((@ad<=20011011 or @rlad<=20011011) and ((CFG and (alias\$3 same ((variable or relationship or dependency or definition-use)) and node)) or ((alias same (CFG or "flow graph")) and (assign\$5</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 16:51
		same (node or edge or vertice)))))) not ((((@ad<=20011011 or @rlad<=20011011) and (((equivalence adj2 class) and ((data or control) adj3 "flow graph")) or (((PUT and GET) or (memory adj2 access)) and "equivalence class" and alias\$3))) or ((@ad<=20011011 or @rlad<=20011011) and ((CFG and (alias\$3 same ((variable or relationship or dependency or definition-use)) and node)) or ((alias		
	9	<pre>same (CFG or "flow graph")) and (assign\$5 same (node or edge or vertice)))))) and (PUT same GET)) and (alias\$3.ab. or alias\$3.clm.) (((@ad<=20011011 or @rlad<=20011011) and (((equivalence adj2 class) and ((data or control) adj3 "flow graph")) or (((PUT and GET) or (memory adj2 access)) and "equivalence class" and alias\$3))) or ((@ad<=20011011 or @rlad<=20011011) and ((CFG and (alias\$3 same ((variable or relationship or dependency or definition-use)) and node)) or ((alias same (CFG or "flow graph")) and (assign\$5</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 17:25
-	2	same (node or edge or vertice)))))) and (PUT same GET) 5694568.pn.	USPAT; US-PGPUB; EPO; JPO;	2004/09/23 15:58
-	22	((path or flow) adj2 insensitive) and (alias near4 analysis)	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/23 10:16
-	18	(((path or flow) adj2 insensitive) and (alias near4 analysis)) and (@ad<=20011011 or @rlad<=20011011)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/23 10:19
_	1	<pre>(alias same (set or node or CFG or "flow independent")) and (definition-use near6 (associat\$5 or relation\$5 or correspond\$4))</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23
_	2	6477701.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 12:28

_	2	((alias near2 node) same "flow graph") and ((definition or use or successor) adj node)	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/23 14:15
			IBM TDB	
-	2	6173444.URPN.	USPAT	2004/09/23 14:06
-	. 4	("4567574" "5448737" "5535394" "5555412").PN.	USPAT	2004/09/23 14:11
_	2	((generat\$3 or creat\$4 or adding) near3 (alias adj node))	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/23 14:22
	6	Burke.in. and alias and pointer and analysis	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/23 14:22
_	0	(alias same (workset and (add\$3 adj2 node))) and (CFG or flow-insensitive or "alias analysis" or interprocedual or def/use)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/23 16:00
_	13	<pre>(alias and ((workset or set) and (add\$3 adj2 node))) and (CFG or flow-insensitive or "alias analysis" or interprocedural or def/use)</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/23 16:01
-	9	(@ad<=20011011 or @rlad<=20011011) and ((alias and ((workset or set) and (add\$3 adj2 node))) and (CFG or flow-insensitive or "alias analysis" or interprocedural or def/use))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/23 16:02
	11	l ' '	USPAT; DERWENT	2004/09/23 16:07
_	4	(definition-use or def/use) and (alias same (graph or CFG or tree))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/23 16:18
-	. 31	5107418.URPN.	USPAT	2004/09/23 16:14
-	18	("5107418" "5185810" "5317718" "5317740" "5659754" "5694568" "5761468" "5778233" "5790859" "5822788" "5905876" "5948095" "5996061" "6119218" "6175898" "6253306" "6317810" "6418516").PN.	USPAT	2004/09/23 16:16
-	13		USPAT; DERWENT	2004/09/24 11:03
	2	1 '	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:22

_	0	(()	USPAT;	2004/09/24
		US-6275976-\$ or US-6131189-\$ or	US-PGPUB;	11:22
		US-5485616-\$ or US-6665865-\$ or	EPO; JPO;	
		US-5535394-\$ or US-5555412-\$ or	DERWENT;	
		US-5448737-\$ or US-5175856-\$ or	IBM TDB	
		US-5107418-\$).did. or (US-5535394-\$ or	1211_122	
		US-5485616-\$).did.) and (while near4		
1		empty)		
-	0	((US-6385496-\$ or US-6173444-\$ or	USPAT;	2004/09/24
		US-6275976-\$ or US-6131189-\$ or	US-PGPUB;	11:22
		US-5485616-\$ or US-6665865-\$ or	EPO; JPO;	
		US-5535394-\$ or US-5555412-\$ or	DERWENT;	
		US-5448737-\$ or US-5175856-\$ or	IBM TDB	
		US-5107418-\$).did. or (US-5535394-\$ or	1011_100	
		05-5107418-5).did. or (05-5555594-5 or	,	
		US-5485616-\$).did.) and (while near4		
		"not empty")		
-	0	((US-6385496-\$ or US-6173444-\$ or	USPAT;	2004/09/24
		US-6275976-\$ or US-6131189-\$ or	US-PGPUB;	11:23
		US-5485616-\$ or US-6665865-\$ or	EPO; JPO;	
		US-5535394-\$ or US-5555412-\$ or	DERWENT;	1
		US-5448737-\$ or US-5175856-\$ or	1	
1			IBM_TDB	
		US-5107418-\$).did. or (US-5535394-\$ or		
		US-5485616-\$).did.) and ("not empty")	l	
-	5	, , , , , , , , , , , , , , , , , , , ,	USPAT;	2004/09/24
		US-6275976-\$ or US-6131189-\$ or	US-PGPUB;	11:24
		US-5485616-\$ or US-6665865-\$ or	EPO; JPO;	`
		US-5535394-\$ or US-5555412-\$ or	DERWENT;	
		US-5448737-\$ or US-5175856-\$ or	IBM TDB	
ŀ		US-5107418-\$).did. or (US-5535394-\$ or	1.1211_122]
		US-5485616-\$).did.) and (set near8		ļ
		empty)		
-	0	((US-6385496-\$ or US-6173444-\$ or	USPAT;	2004/09/24
		US-6275976-\$ or US-6131189-\$ or	US-PGPUB;	11:25
		US-5485616-\$ or US-6665865-\$ or	EPO; JPO;	
		US-5535394-\$ or US-5555412-\$ or	DERWENT;	
		US-5448737-\$ or US-5175856-\$ or	IBM TDB	
		US-5107418-\$).did. or (US-5535394-\$ or		
1		US-5485616-\$).did.) and (set near8	İ	
1				
		working)		0004/00/04
-	0	((US-6385496-\$ or US-6173444-\$ or	USPAT;	2004/09/24
		US-6275976-\$ or US-6131189-\$ or	US-PGPUB;	11:25
		US-5485616-\$ or US-6665865-\$ or	EPO; JPO;	1
		US-5535394-\$ or US-5555412-\$ or	DERWENT;	1
		US-5448737-\$ or US-5175856-\$ or	IBM TDB	1
		US-5107418-\$).did. or (US-5535394-\$ or	_	[
		US-5485616-\$).did.) and (set near8 work)		
l _	n	((US-6385496-\$ or US-6173444-\$ or	USPAT;	2004/09/24
		US-6275976-\$ or US-6131189-\$ or	US-PGPUB;	11:25
		US-5485616-\$ or US-6665865-\$ or	EPO; JPO;	
1		US-5535394-\$ or US-5555412-\$ or	DERWENT;	J
		US-5448737-\$ or US-5175856-\$ or	IBM_TDB	Į l
		US-5107418-\$).did. or (US-5535394-\$ or		
		US-5485616-\$).did.) and (workset)		
	0	((US-6385496-\$ or US-6173444-\$ or	USPAT;	2004/09/24
		US-6275976-\$ or US-6131189-\$ or	US-PGPUB;	11:25
		US-5485616-\$ or US-6665865-\$ or	EPO; JPO;	
		The state of the s	DERWENT;	
		US-5535394-\$ or US-5555412-\$ or	1	
		US-5448737-\$ or US-5175856-\$ or	IBM_TDB	1
		US-5107418-\$).did. or (US-5535394-\$ or	1	
		US-5485616-\$).did.) and (work adj set)	1	1
-	0	alias same (workset and node)	USPAT;	2004/09/24
			US-PGPUB;	11:26
			EPO; JPO;	
			DERWENT;	
ŀ			IBM TDB	
1_	00	alias and (remove adj5 node)	USPAT;	2004/09/24
1	90	arras and (remove adjoinode)		I I
			US-PGPUB;	11:31
			EPO; JPO;	
			DERWENT;	
	i		IBM TDB	i I

_	0	<pre>(alias and (remove adj5 node)) and ((work adj set) or workset)</pre>	USPAT; US-PGPUB;	2004/09/24
		adj see, of werksee,	EPO; JPO; DERWENT;	
			IBM TDB	
_	44	(alias and (remove adj5 node)) and	USPAT;	2004/09/24
-	44	algorithm	US-PGPUB;	11:27
,		algorithm	EPO; JPO;	11.27
			DERWENT;	
1		·	IBM TDB	
_	38		USPAT;	2004/09/24
		algorithm) and (@ad<=20011011 or	US-PGPUB;	11:34
		@rlad<=20011011)	EPO; JPO;	
			DERWENT;	1
		7 /	IBM_TDB	2004/00/24
_	1	alias and (remove same workset)	USPAT; US-PGPUB;	2004/09/24
		•	EPO; JPO;	11.32
			DERWENT;	
			IBM TDB	
-	0	((remove adj2 node) same workset)	USPĀT;	2004/09/24
	1		US-PGPUB;	11:32
			EPO; JPO;	
			DERWENT;	
	_	//	IBM_TDB	2004/00/24
-	0	((remove adj2 node) and workset)	USPAT; US-PGPUB;	2004/09/24
			EPO; JPO;	11:32
			DERWENT;	
		·	IBM TDB	,
_	0	((remove adj2 element) and workset)	USPAT;	2004/09/24
	1	, , , = ==== ,	US-PGPUB;	13:48
			EPO; JPO;	
ļ			DERWENT;	
	_		IBM_TDB	0004/00/04
-	0	((initial adj2 value) and workset)	USPAT;	2004/09/24
			US-PGPUB; EPO; JPO;	11:33
			DERWENT;	
			IBM TDB	
_	73	((initial\$5 adj2 value) and (work adj	USPAT;	2004/09/24
		set))	US-PGPUB;	11:34
			EPO; JPO;	
			DERWENT;	
		//// 141 705 140 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	IBM_TDB	2004/00/24
-	61	(((initial\$5 adj2 value) and (work adj	USPAT;	2004/09/24 11:34
		set))) and (@ad<=20011011 or @rlad<=20011011)	US-PGPUB; EPO; JPO;	11.57
		G11au\-20011011/	DERWENT;	
			IBM TDB	
_	1	((((initial\$5 adj2 value) and (work adj	USPAT;	2004/09/24
		set))) and (@ad<=20011011 or	US-PGPUB;	11:44
		@rlad<=20011011)) and (remov\$3 near4	EPO; JPO;	
		node)	DERWENT;	
	_	/ / CTT	IBM_TDB	2004/00/24
_	3	1 , ,	USPAT;	2004/09/24
		US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or	US-PGPUB; EPO; JPO;	11.40
		US-5535394-\$ or US-5555412-\$ or	DERWENT;	
		US-5448737-\$ or US-5175856-\$ or	IBM TDB	
		US-5107418-\$).did. or (US-5535394-\$ or	12.1122	
,		US-5485616-\$).did.) and (initial adj2		
		value)		

Effects of Pointers on Data Dependences (2001) (Make

Corrections) (4 citations)

Alessandro Orso, Saurabh Sinha, Mary Jean Harrold

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Abstract: This paper presents a technique for computing and classifying data dependences that takes into account the complexities introduced by specific language constructs, such as pointers, arrays, and structures. The classification is finergrained than previously proposed classifications. Moreover, unlike previous work, the paper presents empirical results that illustrate the distribution of data dependences for a set of C subjects. The paper also presents a potential application for the proposed... (Update)

Context of citations to this paper: More

.... techniques to represent exception handling constructs [16] Orso, Harrold, and Sinha studied data dependences in complex languages [12, 13]; and Harrold and Liang tailored existing escape analysis techniques [3, 5] to the Java language [11] To address this vulnerability,...

.... have prerequisites like pointer analysis onto precision and speed of the different slicing chopping algorithms (Some results for SIS are presented in [11, 12]. Second, how are applications that use slicing or chopping influenced by the different algorithms Based on our...

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SoftCache: A Technique for Power and Area Reduction - In Embedded Systems (2003) (Correct) Investigating Feature Interactions By - Exploiting Aspect Oriented (2003) (Correct) Evaluating Context-Sensitive Slicing and Chopping - Krinke (2002) (Correct)

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2: Interprocedural slicing using dependence graphs - Horwitz, Reps et al. - 1990

2: The program dependence graph and its use in optimization (context) - Ferrante, Ottenstein et al. - 1987

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SibTeX entry: (Update)

A. Orso, S. Sinha, and M. J. Harrold. Effects of pointers on data dependences. In Proc. of the 9 th International Workshop on Program Comprehension, May 2001. (To appear). http://citeseer.ist.psu.edu/article/orso01effects.html <u>More</u>

```
@misc{ orso0leffects,
  author = "A. Orso and S. Sinha and M. Harrold",
  title = "Effects of pointers on data dependences",
  text = "A. Orso, S. Sinha, and M. J. Harrold. Effects of pointers on data dependences.
  In Proc. of the 9 th International Workshop on Program Comprehension, May
  2001. (To appear).",
  year = "2001",
  url = "citeseer.ist.psu.edu/article/orso0leffects.html" }
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- 9 A comparative study of two whole-program slicers for C (context) Bent, Atkinson et al. 2000
- 6 Variable precision reaching definitions analysis Tonella, Antoniol et al. 1999
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Documents on the same site (http://www.cc.gatech.edu/aristotle/Publications/index.html): More Empirical Studies of a Safe Regression Test Selection Technique - Rothermel, Harrold (1998) (Correct)

An Empirical Investigation of Program Spectra - Harrold, Rothermel, Wu, Yi (1997) (Correct)

Analyzing Regression Test Selection Techniques - Rothermel, Harrold (1996) (Correct)

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